

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/664,667

DATE: 10/01/2003

TIME: 12:14:11

Input Set : N:\Crf3\RULE60\10664667.raw.txt

Output Set: N:\CRF4\10012003\J664667.raw

46	tac cta gac ctc agt atg aac aac ctc acg gag ctt cag ccg ggt ctc	476
47	Tyr Leu Asp Leu Ser Met Asn Asn Leu Thr Glu Leu Gln Pro Gly Leu	
48	70 75 80 85	
49	ttc cac cac ctg cgc ttc ctg gag gag ctg cgg ctc tca ggg aac cac	524
50	Phe His His Leu Arg Phe Leu Glu Glu Leu Arg Leu Ser Gly Asn His	
51	90 95 100	
52	ctc tca cac atc ccg gga cag gca ttc tcc ggc ctc cac agc ctc aaa	572
53	Leu Ser His Ile Pro Gly Gln Ala Phe Ser Gly Leu His Ser Leu Lys	
54	105 110 115	
55	att cta atg ctg cag agc aac cag ctc cgt ggg atc cca gca gag gca	620
56	Ile Leu Met Leu Gln Ser Asn Gln Leu Arg Gly Ile Pro Ala Glu Ala	
57	120 125 130	
58	cta tgg gag ctg ccc agc ctg cag tcg ctg cgc cta gat gct aat ctc	668
59	Leu Trp Glu Leu Pro Ser Leu Gln Ser Leu Arg Leu Asp Ala Asn Leu	
60	135 140 145	
61	atc tcc ctg gtc cct gag aga agc ttt gag ggg ctc tcc tcc ctc cgc	716
62	Ile Ser Leu Val Pro Glu Arg Ser Phe Glu Gly Leu Ser Ser Leu Arg	
63	150 155 160 165	
64	cac ctc tgg ctg gat gac aat gca ctc act gag atc ccc gtc aga gct	764
65	His Leu Trp Leu Asp Asp Asn Ala Leu Thr Glu Ile Pro Val Arg Ala	
66	170 175 180	
67	ctc aac aac ctt cct gcc cta cag gcc atg acc ttg gct ctc aac cat	812
68	Leu Asn Asn Leu Pro Ala Leu Gln Ala Met Thr Leu Ala Leu Asn His	
69	185 190 195	
70	atc cgc cac atc cct gac tat gcc ttc cag aac ctc acc agt ctt gtg	860
71	Ile Arg His Ile Pro Asp Tyr Ala Phe Gln Asn Leu Thr Ser Leu Val	
72	200 205 210	
73	gtg ctg cat cta cat aac aac cgc atc cag cat gtg ggg acc cac agc	908
74	Val Leu His Leu His Asn Asn Arg Ile Gln His Val Gly Thr His Ser	
75	215 220 225	
76	ttc gag ggg ctg cac aat ctg gag aca cta gac ctg aac tat aat gag	956
77	Phe Glu Gly Leu His Asn Leu Glu Thr Leu Asp Leu Asn Tyr Asn Glu	
78	230 235 240 245	
79	ctg cag gag ttc ccc ttg gct atc cgg acc ctg ggc agg ctg cag gaa	1004
80	Leu Gln Glu Phe Pro Leu Ala Ile Arg Thr Leu Gly Arg Leu Gln Glu	
81	250 255 260	
82	ttg ggt ttc cat aac aac atc aag gct atc cca gag aaa gcc ttc	1052
83	Leu Gly Phe His Asn Asn Ile Lys Ala Ile Pro Glu Lys Ala Phe	
84	265 270 275	
85	atg ggc aac cct ctc ctg cag aca ata cat ttt tat gac aac cca atc	1100
86	Met Gly Asn Pro Leu Leu Gln Thr Ile His Phe Tyr Asp Asn Pro Ile	
87	280 285 290	
88	cag ttt gtg gga agg tca gca ttc cag tac ctg tct aaa ctg cat acg	1148
89	Gln Phe Val Gly Arg Ser Ala Phe Gln Tyr Leu Ser Lys Leu His Thr	
90	295 300 305	
91	ctc tct ttg aat ggt gcc act gat atc caa gag ttc cca gac ctc aaa	1196
92	Leu Ser Leu Asn Gly Ala Thr Asp Ile Gln Glu Phe Pro Asp Leu Lys	
93	310 315 320 325	
94	ggc acc act agc ctg gag atc ctg acc ctg acc cgt gcg ggc atc aga	1244

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95	Gly Thr Thr Ser Leu Glu Ile Leu Thr Leu Thr Arg Ala Gly Ile Arg			
96	330	335	340	
97	ctg ctc cca ccg gga gtg tgc caa cag ctg cct agg ctc cga atc ctg	1292		
98	Leu Leu Pro Pro Gly Val Cys Gln Gln Leu Pro Arg Leu Arg Ile Leu			
99	345	350	355	
100	gag ctg tct cat aat cag atc gag gag tta ccc agc ctg cac aga tgt	1340		
101	Glu Leu Ser His Asn Gln Ile Glu Glu Leu Pro Ser Leu His Arg Cys			
102	360	365	370	
103	cag aag ctg gag gaa att ggc ctc cga cat aac agg atc aag gaa att	1388		
104	Gln Lys Leu Glu Glu Ile Gly Leu Arg His Asn Arg Ile Lys Glu Ile			
105	375	380	385	
106	ggt gca gat acc ttc agc cag ctg ggc tcc ttg caa gct tta gac ctg	1436		
107	Gly Ala Asp Thr Phe Ser Gln Leu Gly Ser Leu Gln Ala Leu Asp Leu			
108	390	395	400	405
109	agt tgg aat gcc atc cgt gcc atc cac cct gag gct ttc tca acc ctt	1484		
110	Ser Trp Asn Ala Ile Arg Ala Ile His Pro Glu Ala Phe Ser Thr Leu			
111	410	415	420	
112	cga tcc ttg gtt aag ctg gac ctg act gac aac cag ctg acc aca ctg	1532		
113	Arg Ser Leu Val Lys Leu Asp Leu Thr Asp Asn Gln Leu Thr Thr Leu			
114	425	430	435	
115	ccc ctg gct ggg ctg gga ggc ctg atg cac ctg aag ctc aaa ggg aac	1580		
116	Pro Leu Ala Gly Leu Gly Gly Leu Met His Leu Lys Leu Lys Gly Asn			
117	440	445	450	
118	ttg gcc ctg tct cag gcc ttc tcc aag gac agt ttc cca aaa ctg agg	1628		
119	Leu Ala Leu Ser Gln Ala Phe Ser Lys Asp Ser Phe Pro Lys Leu Arg			
120	455	460	465	
121	atc ctg gag gtg ccc tac gcc tac cag tgc tgt gcc tac ggc atc tgt	1676		
122	Ile Leu Glu Val Pro Tyr Ala Tyr Gln Cys Cys Ala Tyr Gly Ile Cys			
123	470	475	480	485
124	gcc agc ttc ttc aag acc tct ggg cag tgg cag gcc gag gac ttt cat	1724		
125	Ala Ser Phe Phe Lys Thr Ser Gly Gln Trp Gln Ala Glu Asp Phe His			
126	490	495	500	
127	cca gaa gaa gag gag gca cca aag agg ccc ctg ggt ctc ctt gct gga	1772		
128	Pro Glu Glu Glu Ala Pro Lys Arg Pro Leu Gly Leu Leu Ala Gly			
129	505	510	515	
130	caa gct gag aac cac tat gac cta gac ctg gat gag ctc cag atg ggg	1820		
131	Gln Ala Glu Asn His Tyr Asp Leu Asp Leu Asp Glu Leu Gln Met Gly			
132	520	525	530	
133	aca gag gac tca aag cca aac ccc agt gtc cag tgc agc cct gtt cca	1868		
134	Thr Glu Asp Ser Lys Pro Asn Pro Ser Val Gln Cys Ser Pro Val Pro			
135	535	540	545	
136	ggc ccc ttc aag ccc tgc gag cac ctc ttt gag agc tgg ggc atc cgc	1916		
137	Gly Pro Phe Lys Pro Cys Glu His Leu Phe Glu Ser Trp Gly Ile Arg			
138	550	555	560	565
139	ctt gct gtg tgg gcc atc gtg ctc tcc gta ctc tgt aac ggg ctg	1964		
140	Leu Ala Val Trp Ala Ile Val Leu Leu Ser Val Leu Cys Asn Gly Leu			
141	570	575	580	
142	gtg ctg ctg aca gtc ttt gcc agc gga ccc agc ccg ctg tcc ccc gtc	2012		
143	Val Leu Leu Thr Val Phe Ala Ser Gly Pro Ser Pro Leu Ser Pro Val			